FCC RF Test Report

Report No.: FW051802

: 1 of 21

: Rev. 01

Report Issued Date: Apr. 02, 2021

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Report Version

APPLICANT : Fibocom Wireless Inc.

EQUIPMENT : 5G Module
BRAND NAME : Fibocom
MODEL NAME : FM350-GL

FCC ID : ZMOFM350GL

STANDARD : 47 CFR Part 2, and 90(S)

CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on May 18, 2020 and completely tested on Jan. 19, 2021. We, Sporton International (Shenzhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Frie Shih

Donale Chen

Approved by: Eric Shih / Manager

Sporton International (ShenZhen) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FW051802	Rev. 01	Initial issue of report	Apr. 02, 2021

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SUMMARY OF TEST RESULT

Report FCC Rule		Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting only	PASS	-
3.2	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	Reporting only	PASS	-
3.3	§2.1051 §90.691	Emission masks – In-band emissions	< 50+10log ₁₀ (P[Watts])	PASS	-
3.4	§2.1051 §90.691	Emission masks – Out of band emissions	< 43+10log ₁₀ (P[Watts])	PASS	-
3.5	§2.1053 §90.691	Field Strength of Spurious Radiation	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 49.37 dB at 3258.000 MHz
3.6	§2.1055 §90.213	Frequency Stability for Temperature & Voltage	< 2.5 ppm	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1 General Description

1.1 Applicant

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

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1.2 Manufacturer

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

1.3 Feature of Equipment Under Test

	Product Feature
Equipment	5G Module
Brand Name	Fibocom
Model Name	FM350-GL
FCC ID	ZMOFM350GL
EUT supports Radios application	WCDMA/LTE/5G NR
EOT Supports Radios application	GNSS
IMEI Code	Conducted: 862146050001310
IIWEI Code	Radiation: 882146050002276
HW Version	V1.0.6
SW Version	81600.0000.00.09.03.03
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard							
Tx Frequency	814 ~ 824 MHz						
Rx Frequency	859 ~ 869 MHz						
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz						
Maximum Output Power to Antenna	23.69 dBm						
Antenna Gain	3.0 dBi						
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM						

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

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1.6 Maximum Conducted Power, Frequency Tolerance and Emission Designator

L	TE Band 26		QPSK		16QAM												
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)										
1.4	814.7 ~ 823.3	1M10G7D	-	0.2291	1M10W7D	•	0.1982										
3	815.5 ~ 822.5	2M72G7D	-	0.2307	2M72W7D	-	0.2056										
5	816.5 ~ 821.5	4M50G7D	4M50G7D	4M50G7D	4M50G7D	4M50G7D	4M50G7D	4M50G7D	4M50G7D	4M50G7D	4M50G7D	4M50G7D	-	0.2339	4M50W7D	-	0.2046
10	819.0	9M03G7D	0.0028	0.2265	8M97W7D	-	0.1901										
15	821.5	13M5G7D	0.0059	0.2249	13M5W7D	-	0.1914										
Ľ	TE Band 26			64Q	QAM												
BW (MHz)	Frequency Range (MHz)	Emission I (99%)	•	•	r Tolerance om)	Maximum Conducted power (W)											
1.4	814.7 ~ 823.3	1M10	W7D		0		476										
3	815.5 ~ 822.5	2M73	W7D		-	0.1578											
5	816.5 ~ 821.5	4M50	W7D		-	0.1	567										
10	0 819.0 8M99W7D				-	0.1521											
15	821.5	13M4	W7D		-	0.1510											

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1.7 Testing Site

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.									
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595									
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.							
	TH01-SZ	CN1256	421272							

Test Firm	Sporton International (Shenzhen) Inc.							
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398							
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.					
	03CH03-SZ	CN1256	421272					

1.8 Test Software

lt	Item Site		Manufacturer	Name	Version	
	1.	03CH03-SZ	AUDIX	E3	6.2009-8-24	

1.9 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 90(S)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

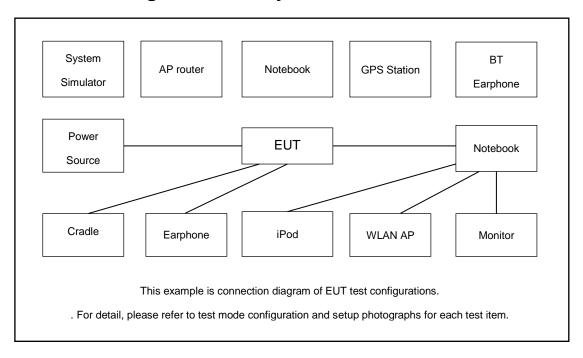
		Bandwidth (MHz)						Modulation			RB#			Test Channel			
Test Items	Band	1.4	3	5	10	15	20	QPS K	16 QAM	64 QAM	256 QAM	1	Half	Full	L	М	н
Max. Output Power	26	v	v	٧	>	v	•	>	٧	v	v	v	v	v	>	>	v
26dB and 99% Bandwidth	26	v	v	v	v	v	-	v	v	v				v	v	v	v
Emission masks In-band emissions	26	v	v	v	v	v	-	v	v	v		v		v	v		v
Emission masks – Out of band emissions	26	v	v	v	V	v	-	v	v	v		v			V	٧	v
Frequency Stability	26				>	v	-	٧						v		٧	
Radiated Spurious Emission	26			v	v	v		٧				٧			v	v	v
Note 1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequence spectrum which falls within part 22 also complies. 4. For modulation of 256QAM, the maximum power of 256QAM is lower than other modulation (QPSK/16QAM/64QAM), therefore, according to engineering evaluation, we choose higher power (QPSK/16QAM/64QAM) to perform all tests and show in the report					uency												

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2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item Equipment		Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
	1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
	2.	Test jig	N/A	N/A	N/A	N/A	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.0 dB and a 10dB attenuator.

Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$

$$= 4.0 + 10 = 14.0 (dB)$$

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2.5 Frequency List of Low/Middle/High Channels

LTE Band 26 Channel and Frequency List											
BW [MHz] Channel/Frequency(MHz) Lowest Middle Highest											
45	Channel	26765	-	-							
15	Frequency	821.5	-	-							
40	Channel	-	26740	-							
10	Frequency	-	819	-							
5	Channel	26715	26740	26765							
5	Frequency	816.5	819	821.5							
3	Channel	26705	26740	26775							
3	Frequency	815.5	819	822.5							
1 1	Channel	26697	26740	26783							
1.4	Frequency	814.7	819	823.3							

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3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

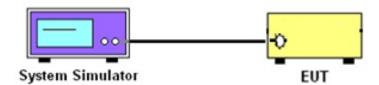
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through the system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

3.1.4 Test Setup



3.1.5 Test Result of Conducted Output Power

Please refer to Appendix A.

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3.2 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.2.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

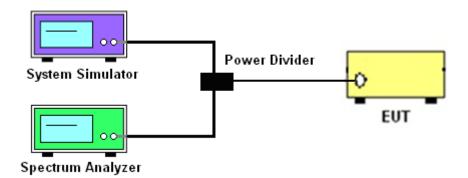
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

3.2.4 Test Setup



3.2.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A.

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3.3 Emissions Mask Measurement

3.3.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a):

- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
- (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log₁₀(f/6.1) decibels or 50 + 10 Log₁₀(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log₁₀(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The emissions mask of low and high channels for the highest RF powers were measured.
- The measured RBW and the VBW set 3 times of RBW are then set in spectrum analyzer, and the RBW correction factor 10log (1% of OBW/measured RBW)(dB) was compensated, if required.
- 4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

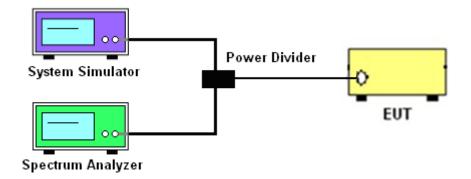
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3.3.4 Test Setup



3.3.5 Test Result (Plots) of Conducted Emissions Mask

Please refer to Appendix A.

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3.4 Emissions Mask - Out Of Band Emissions Measurement

3.4.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least 43 + 10 log (P) dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

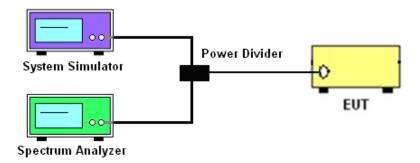
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

3.4.4 Test Setup



3.4.5 Test Result (Plots) of Conducted Emission

Please refer to Appendix A.

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3.5 Field Strength of Spurious Radiation Measurement

3.5.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI/TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43+10\log_{10}(P[Watts])$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

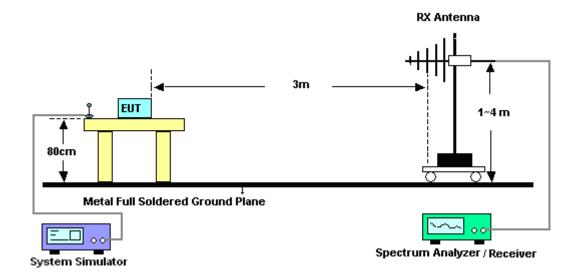
- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 8. Taking the record of output power at antenna port.
- 9. Repeat step 7 to step 8 for another polarization.
- 10. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 11. ERP (dBm) = EIRP 2.15
- 12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 13. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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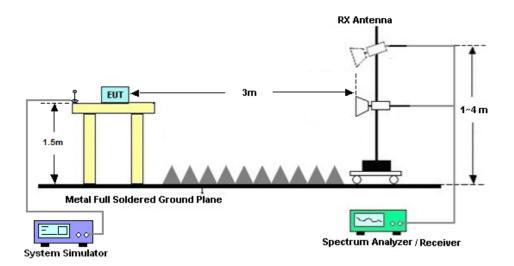
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3.5.4 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



3.5.5 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

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3.6 Frequency Stability Measurement

3.6.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency according to FCC Part 90.213.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures for Temperature Variation

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three
 hours. Power was applied and the maximum change in frequency was recorded within one
 minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.6.4 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
- The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
- 3. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the
- 4. battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.

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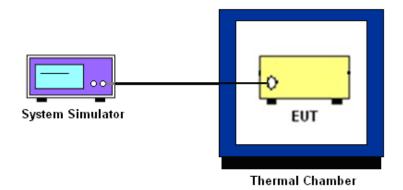
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3.6.5 Test Setup



3.6.6 Test Result of Temperature Variation

Please refer to Appendix A.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 17, 2020	Dec. 18, 2020	Apr. 16, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangrou p	LP-150U	H201408180 3	-40~+150°C	Jul. 22, 2020	Dec. 18, 2020	Jul. 21, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY5445008 3	20Hz~8.4GHz	Apr. 17, 2020	Jan. 19, 2021	Apr. 16, 2021	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY5515024 6	10Hz~44GHz;	Apr. 17, 2020	Jan. 19, 2021	Apr. 16, 2021	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2020	Jan. 19, 2021	Jun. 21, 2021	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120 D	9120D-1355	1GHz~18GHz	Apr. 30, 2020	Jan. 19, 2021	Apr. 29, 2021	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 17, 2020	Jan. 19, 2021	Oct. 16, 2021	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 21, 2020	Jan. 19, 2021	Jul. 20, 2021	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 23, 2020	Jan. 19, 2021	Apr. 22, 2021	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY3950130 2	500MHz~26.5G Hz	Dec. 25, 2020	Jan. 19, 2021	Dec. 24, 2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	6160100019 85	N/A	NCR	Jan. 19, 2021	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jan. 19, 2021	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jan. 19, 2021	NCR	Radiation (03CH03-SZ)

NCR: No Calibration Required

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5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	3 04B
Confidence of 95% (U = 2Uc(y))	3.0dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of	3.6dB
Confidence of 95% (U = 2Uc(y))	3.0dB

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

	-	
Me	easuring Uncertainty for a Level of	3.8dB
	Confidence of 95% (U = $2Uc(y)$)	3.0UD

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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
	Cha	nnel		26765	S, 1.15q.	3,
	Frequenc	cy (MHz)		821.5		
15	QPSK	1	0	23.49		
15	QPSK	1	37	23.40		
15	QPSK	1	74	23.52		
15	QPSK	36	0	22.45		
15	QPSK	36	20	22.57		
15	QPSK	36	39	22.49		
15	QPSK	75	0	22.54		
15	16QAM	1	0	22.37		
15	16QAM	1	37	22.69		
15	16QAM	1	74	22.82		
15	16QAM	36	0	21.43		
15	16QAM	36	20	21.56		
15	16QAM	36	39	21.49		
15	16QAM	75	0	21.55		
15	64QAM	1	0	21.77		
15	64QAM	1	37	21.76		
15	64QAM	1	74	21.79		
15	64QAM	36	0	20.43		
15	64QAM	36	20	20.53		
15	64QAM	36	39	20.58		
15	64QAM	75	0	20.42		
	Cha	nnel			26740	
	Frequenc	cy (MHz)			819	
10	QPSK	1	0		23.39	
10	QPSK	1	25		23.54	
10	QPSK	1	49		23.55	
10	QPSK	25	0		22.54	
10	QPSK	25	12		22.52	
10	QPSK	25	25		22.50	
10	QPSK	50	0		22.57	
10	16QAM	1	0		22.79	
10	16QAM	1	25		22.66	
10	16QAM	1	49		22.65	
10	16QAM	25	0		21.42	
10	16QAM	25	12		21.57	
10	16QAM	25	25		21.50	
10	16QAM	50	0		21.60	
10	64QAM	1	0		21.62	
10	64QAM	1	25		21.76	

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10
10
10
Channel 26715 26740 26765 Frequency (MHz) 816.5 819 821.5 5 OPSK 1 0 23.60 23.64 23.50 5 OPSK 1 12 23.55 23.47 23.67 5 OPSK 1 24 23.60 23.49 23.69 5 OPSK 12 0 22.50 22.56 22.60 5 OPSK 12 7 22.52 22.58 22.60 5 OPSK 12 13 22.56 22.58 22.60 5 OPSK 12 13 22.56 22.53 22.54 5 OPSK 25 0 22.55 22.53 22.54 5 16QAM 1 0 22.94 22.86 23.08 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 24 23
Channel 26715 26740 26765 Frequency (MHz) 816.5 819 821.5 5 OPSK 1 0 23.60 23.64 23.50 5 OPSK 1 12 23.55 23.47 23.67 5 OPSK 1 24 23.60 23.49 23.69 5 OPSK 12 0 22.50 22.56 22.60 5 OPSK 12 7 22.52 22.58 22.60 5 OPSK 12 13 22.56 22.45 22.60 5 OPSK 12 13 22.56 22.45 22.48 5 OPSK 25 0 22.55 22.53 22.54 5 OPSK 25 0 22.55 22.53 22.54 5 16QAM 1 0 22.94 22.86 23.08 5 16QAM 1 12 21.4
Frequency (MHz) S16.5 S19
5 QPSK 1 0 23.60 23.64 23.50 5 QPSK 1 12 23.55 23.47 23.67 5 QPSK 1 24 23.60 23.49 23.69 5 QPSK 12 0 22.50 22.56 22.60 5 QPSK 12 7 22.52 22.58 22.60 5 QPSK 12 13 22.56 22.45 22.48 5 QPSK 25 0 22.55 22.53 22.54 5 16QAM 1 0 22.94 22.86 23.08 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 24 23.10 22.45 22.48 5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 12 0 21.45 21.48 21.63 5 </th
5 QPSK 1 12 23.55 23.47 23.67 5 QPSK 1 24 23.60 23.49 23.69 5 QPSK 12 0 22.50 22.56 22.60 5 QPSK 12 13 22.56 22.45 22.48 5 QPSK 25 0 22.55 22.53 22.54 5 16QAM 1 0 22.94 22.86 23.08 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 12 0 21.45 21.48 21.63 5 16QAM 12 7 21.49 21.41 21.51 5
5 QPSK 1 24 23.60 23.49 23.69 5 QPSK 12 0 22.50 22.56 22.60 5 QPSK 12 7 22.52 22.58 22.60 5 QPSK 12 13 22.56 22.45 22.48 5 QPSK 25 0 22.55 22.53 22.54 5 16QAM 1 0 22.94 22.86 23.08 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 12 0 21.45 21.48 21.63 5 16QAM 12 7 21.49 21.41 21.51 5 16QAM 12 13 21.44 21.54 21.54 5 </th
5 QPSK 12 0 22.50 22.56 22.60 5 QPSK 12 7 22.52 22.58 22.60 5 QPSK 12 13 22.56 22.45 22.48 5 QPSK 25 0 22.55 22.53 22.54 5 16QAM 1 0 22.94 22.86 23.08 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 12 0 21.45 21.48 21.63 5 16QAM 12 7 21.49 21.41 21.51 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 1 0 21.78 21.36 21.50 <th< th=""></th<>
5 QPSK 12 7 22.52 22.58 22.60 5 QPSK 12 13 22.56 22.45 22.48 5 QPSK 25 0 22.55 22.53 22.54 5 16QAM 1 0 22.94 22.86 23.08 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 12 0 21.45 21.48 21.63 5 16QAM 12 7 21.49 21.41 21.51 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 1 0 21.78 21.36 21.57 21.65 <
5 QPSK 12 13 22.56 22.45 22.48 5 QPSK 25 0 22.55 22.53 22.54 5 16QAM 1 0 22.94 22.86 23.08 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 12 0 21.45 21.48 21.63 5 16QAM 12 7 21.49 21.41 21.51 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 25 0 21.56 21.57 21.65 5 64QAM 1 0 21.78 21.36 21.50 5 64QAM 1 1 24 21.95 21.82 21.84
5 QPSK 25 0 22.55 22.53 22.54 5 16QAM 1 0 22.94 22.86 23.08 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 12 0 21.45 21.48 21.63 5 16QAM 12 7 21.49 21.41 21.51 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 25 0 21.56 21.57 21.65 5 64QAM 1 0 21.78 21.36 21.50 5 64QAM 1 1 2 21.82 21.82 21.84 5 64QAM 1 24 21.95 21.82 21.84
5 16QAM 1 0 22.94 22.86 23.08 5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 12 0 21.45 21.48 21.63 5 16QAM 12 7 21.49 21.41 21.51 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 25 0 21.56 21.57 21.65 5 64QAM 1 0 21.78 21.36 21.50 5 64QAM 1 1 24 21.95 21.82 21.84 5 64QAM 12 0 20.56 20.52 20.70 5 64QAM 12 1 3 20.47 20.58 20.58
5 16QAM 1 12 22.67 23.11 23.09 5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 12 0 21.45 21.48 21.63 5 16QAM 12 7 21.49 21.41 21.51 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 25 0 21.56 21.57 21.65 5 64QAM 1 0 21.78 21.36 21.50 5 64QAM 1 12 21.68 21.32 21.89 5 64QAM 1 24 21.95 21.82 21.84 5 64QAM 12 0 20.56 20.52 20.70 5 64QAM 12 7 20.54 20.48 20.58 5 64QAM 12 13 20.47 20.58 20.58 <t< th=""></t<>
5 16QAM 1 24 23.10 22.45 22.68 5 16QAM 12 0 21.45 21.48 21.63 5 16QAM 12 7 21.49 21.41 21.51 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 25 0 21.56 21.57 21.65 5 64QAM 1 0 21.78 21.36 21.50 5 64QAM 1 12 21.68 21.32 21.89 5 64QAM 1 24 21.95 21.82 21.84 5 64QAM 1 24 21.95 21.82 21.84 5 64QAM 12 0 20.56 20.52 20.70 5 64QAM 12 7 20.54 20.48 20.58 5 64QAM 12 13 20.47 20.58 20.58
5 16QAM 12 0 21.45 21.48 21.63 5 16QAM 12 7 21.49 21.41 21.51 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 25 0 21.56 21.57 21.65 5 64QAM 1 0 21.78 21.36 21.50 5 64QAM 1 12 21.68 21.32 21.89 5 64QAM 1 24 21.95 21.82 21.84 5 64QAM 12 0 20.56 20.52 20.70 5 64QAM 12 7 20.54 20.48 20.58 5 64QAM 12 13 20.47 20.58 20.58 5 64QAM 12 13 20.47 20.58 20.58 5 64QAM 25 0 20.57 20.44 20.53 5 64QAM 25 0 20.57 20.44 20.53 <
5 16QAM 12 7 21.49 21.41 21.51 5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 25 0 21.56 21.57 21.65 5 64QAM 1 0 21.78 21.36 21.50 5 64QAM 1 12 21.68 21.32 21.89 5 64QAM 1 24 21.95 21.82 21.84 5 64QAM 12 0 20.56 20.52 20.70 5 64QAM 12 7 20.54 20.48 20.58 5 64QAM 12 13 20.47 20.58 20.58 5 64QAM 25 0 20.57 20.44 20.53 5 64QAM 25 0 20.57 20.44 20.53 5 64QAM 25 0 20.57 20.44 20.53 Channel 26705 26740 26775 Frequency (MHz)
5 16QAM 12 13 21.44 21.54 21.54 5 16QAM 25 0 21.56 21.57 21.65 5 64QAM 1 0 21.78 21.36 21.50 5 64QAM 1 12 21.68 21.32 21.89 5 64QAM 1 24 21.95 21.82 21.84 5 64QAM 12 0 20.56 20.52 20.70 5 64QAM 12 7 20.54 20.48 20.58 5 64QAM 12 13 20.47 20.58 20.58 5 64QAM 25 0 20.57 20.44 20.53 Channel 26705 26740 26775 Frequency (MHz) 815.5 819 822.5 3 QPSK 1 0 23.53 23.54 23.48 3 QPSK 1 8 23.47 23.49 23.63
5 16QAM 25 0 21.56 21.57 21.65 5 64QAM 1 0 21.78 21.36 21.50 5 64QAM 1 12 21.68 21.32 21.89 5 64QAM 1 24 21.95 21.82 21.84 5 64QAM 12 0 20.56 20.52 20.70 5 64QAM 12 7 20.54 20.48 20.58 5 64QAM 12 13 20.47 20.58 20.58 5 64QAM 25 0 20.57 20.44 20.53 Channel 26705 26740 26775 Frequency (MHz) 815.5 819 822.5 3 QPSK 1 0 23.53 23.54 23.48 3 QPSK 1 8 23.47 23.49 23.63
5 64QAM 1 0 21.78 21.36 21.50 5 64QAM 1 12 21.68 21.32 21.89 5 64QAM 1 24 21.95 21.82 21.84 5 64QAM 12 0 20.56 20.52 20.70 5 64QAM 12 7 20.54 20.48 20.58 5 64QAM 12 13 20.47 20.58 20.58 5 64QAM 25 0 20.57 20.44 20.53 Channel 26705 26740 26775 Frequency (MHz) 815.5 819 822.5 3 QPSK 1 0 23.53 23.54 23.48 3 QPSK 1 8 23.47 23.49 23.63
5 64QAM 1 12 21.68 21.32 21.89 5 64QAM 1 24 21.95 21.82 21.84 5 64QAM 12 0 20.56 20.52 20.70 5 64QAM 12 7 20.54 20.48 20.58 5 64QAM 12 13 20.47 20.58 20.58 5 64QAM 25 0 20.57 20.44 20.53 Channel 26705 26740 26775 Frequency (MHz) 815.5 819 822.5 3 QPSK 1 0 23.53 23.54 23.48 3 QPSK 1 8 23.47 23.49 23.63
5 64QAM 1 24 21.95 21.82 21.84 5 64QAM 12 0 20.56 20.52 20.70 5 64QAM 12 7 20.54 20.48 20.58 5 64QAM 12 13 20.47 20.58 20.58 5 64QAM 25 0 20.57 20.44 20.53 Channel 26705 26740 26775 Frequency (MHz) 815.5 819 822.5 3 QPSK 1 0 23.53 23.54 23.48 3 QPSK 1 8 23.47 23.49 23.63
5 64QAM 12 0 20.56 20.52 20.70 5 64QAM 12 7 20.54 20.48 20.58 5 64QAM 12 13 20.47 20.58 20.58 5 64QAM 25 0 20.57 20.44 20.53 Channel 26705 26740 26775 Frequency (MHz) 815.5 819 822.5 3 QPSK 1 0 23.53 23.54 23.48 3 QPSK 1 8 23.47 23.49 23.63
5 64QAM 12 7 20.54 20.48 20.58 5 64QAM 12 13 20.47 20.58 20.58 5 64QAM 25 0 20.57 20.44 20.53 Channel 26705 26740 26775 Frequency (MHz) 815.5 819 822.5 3 QPSK 1 0 23.53 23.54 23.48 3 QPSK 1 8 23.47 23.49 23.63
5 64QAM 12 13 20.47 20.58 20.58 5 64QAM 25 0 20.57 20.44 20.53 Channel 26705 26740 26775 Frequency (MHz) 815.5 819 822.5 3 QPSK 1 0 23.53 23.54 23.48 3 QPSK 1 8 23.47 23.49 23.63
5 64QAM 25 0 20.57 20.44 20.53 Channel 26705 26740 26775 Frequency (MHz) 815.5 819 822.5 3 QPSK 1 0 23.53 23.54 23.48 3 QPSK 1 8 23.47 23.49 23.63
Channel 26705 26740 26775 Frequency (MHz) 815.5 819 822.5 3 QPSK 1 0 23.53 23.54 23.48 3 QPSK 1 8 23.47 23.49 23.63
Frequency (MHz) 815.5 819 822.5 3 QPSK 1 0 23.53 23.54 23.48 3 QPSK 1 8 23.47 23.49 23.63
3 QPSK 1 0 23.53 23.54 23.48 3 QPSK 1 8 23.47 23.49 23.63
3 QPSK 1 8 23.47 23.49 23.63
3 QPSK 1 14 23.49 23.45 23.56
3 QPSK 8 0 22.46 22.54 22.56
3 QPSK 8 4 22.50 22.54 22.59
3 QPSK 8 7 22.47 22.50 22.52
3 QPSK 15 0 22.55 22.51 22.59
3 16QAM 1 0 22.53 22.72 23.13
3 16QAM 1 8 22.54 22.77 23.09
3 16QAM 1 14 23.01 22.92 23.07
3 16QAM 8 0 21.51 21.44 21.65
3 16QAM 8 4 21.55 21.49 21.57
3 16QAM 8 7 21.66 21.63 21.63
3 16QAM 15 0 21.57 21.59 21.64
3 64QAM 1 0 21.61 21.98 21.56
3 64QAM 1 8 21.50 21.76 21.63
3 64QAM 1 14 21.91 21.46 21.96
3 64QAM 8 0 20.53 20.64 20.56
3 64QAM 8 4 20.57 20.45 20.59
3 64QAM 8 7 20.53 20.53 20.55

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	212411	45		00.50	00.40	00.04
3	64QAM	15	0	20.58	20.43	20.61
		annel		26697	26740	26783
	Frequer	ncy (MHz)		814.7	819	823.3
1.4	QPSK	1	0	23.37	23.43	23.47
1.4	QPSK	1	3	23.34	23.33	23.60
1.4	QPSK	1	5	23.37	23.42	23.49
1.4	QPSK	3	0	23.39	23.41	23.39
1.4	QPSK	3	1	23.28	23.37	23.52
1.4	QPSK	3	3	23.33	23.34	23.58
1.4	QPSK	6	0	22.37	22.32	22.48
1.4	16QAM	1	0	22.54	22.85	22.35
1.4	16QAM	1	3	22.94	22.56	22.93
1.4	16QAM	1	5	22.62	22.63	22.97
1.4	16QAM	3	0	22.42	22.40	22.40
1.4	16QAM	3	1	22.45	22.40	22.52
1.4	16QAM	3	3	22.28	22.44	22.49
1.4	16QAM	6	0	21.40	21.52	21.51
1.4	64QAM	1	0	21.67	21.64	21.42
1.4	64QAM	1	3	21.64	21.69	21.46
1.4	64QAM	1	5	21.62	21.62	21.48
1.4	64QAM	3	0	21.55	21.57	21.44
1.4	64QAM	3	1	21.47	21.38	21.48
1.4	64QAM	3	3	21.40	21.35	21.50
1.4	64QAM	6	0	20.27	20.48	20.45

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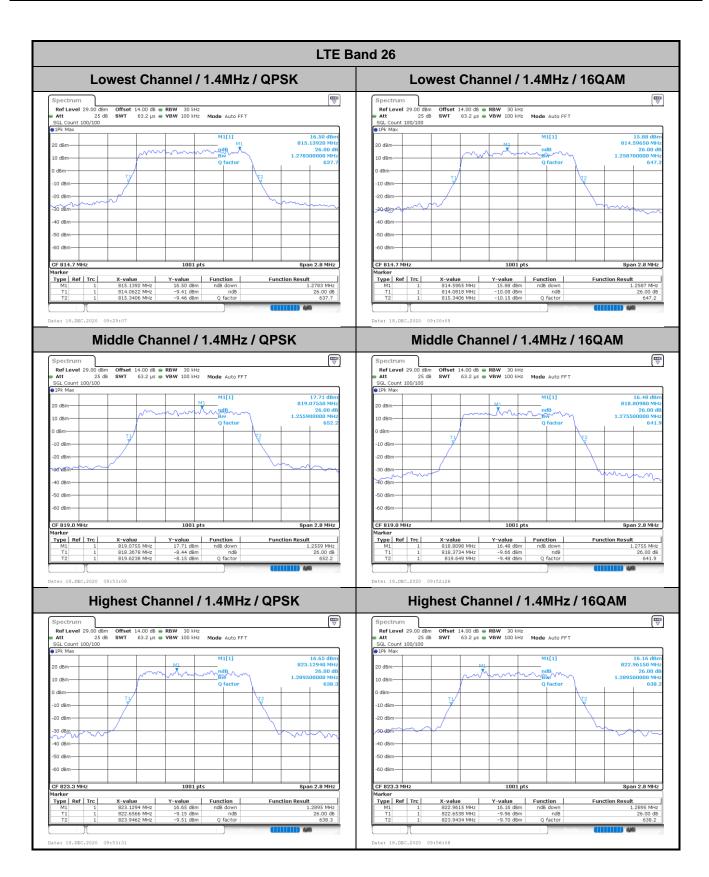
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26dB Bandwidth

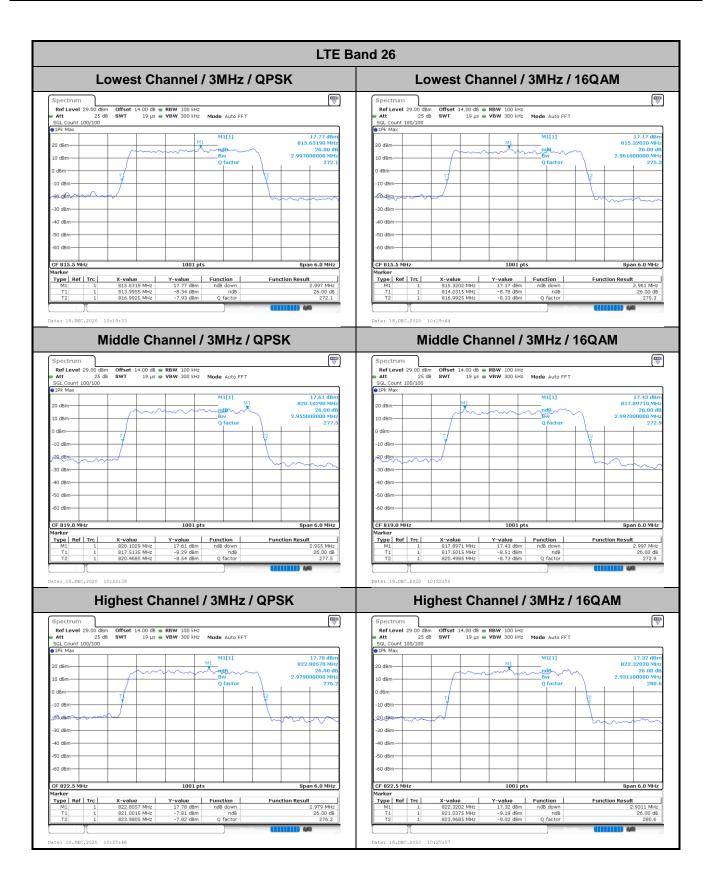
Mode					LTE Ba	and 26 :	26dB BV	V(MHz)				
BW	1.4MHz 3MHz				5MHz 10MHz			15MHz		20MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.26	3.00	2.96	4.88	4.89	-	-	14.60	14.51	-	-
Middle CH	1.26	1.28	2.96	3.00	4.94	4.91	9.87	9.71	-	-	-	-
Highest CH	1.29	1.29	2.98	2.93	4.95	4.90	-	-	-	-	-	-
Mode					LTE Ba	and 26 :	26dB BV	V(MHz)		1		1
BW	1.4	ИHz	3M	lHz	5M	lHz	101	ЛHz	15N	ЛHz	201	ЛHz
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.30	-	2.93	-	4.89	-	-	-	14.18	-	-	-
Middle CH	1.26	-	2.95	-	4.85	-	9.73	-	-	-	-	-
Highest CH	1.27	-	2.98	-	4.79	-	-	-	-	-	-	-

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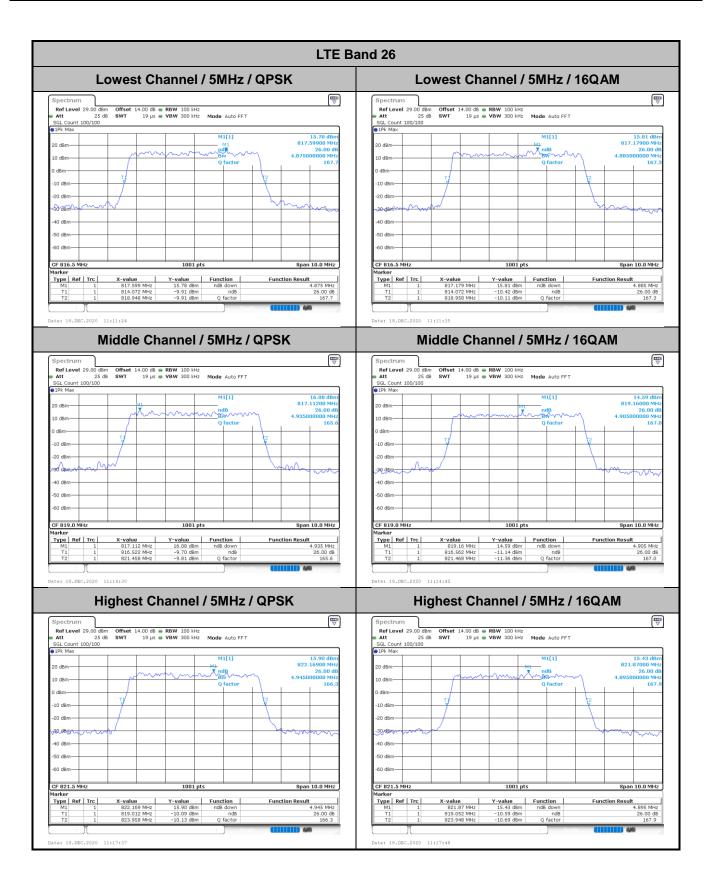
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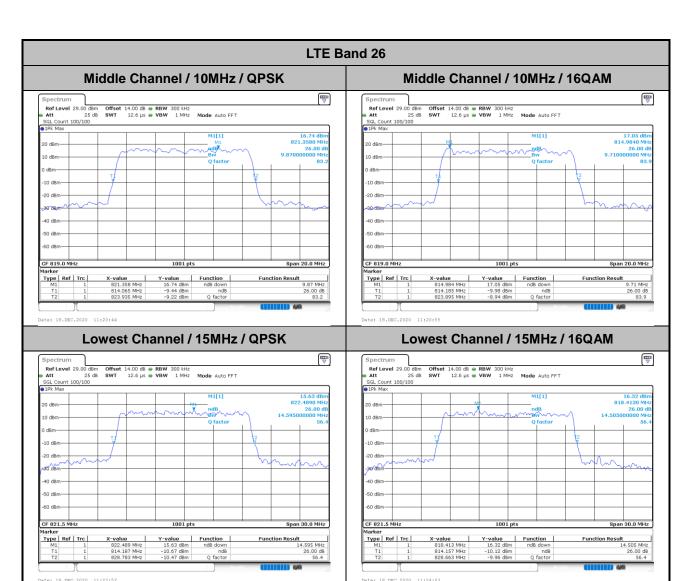
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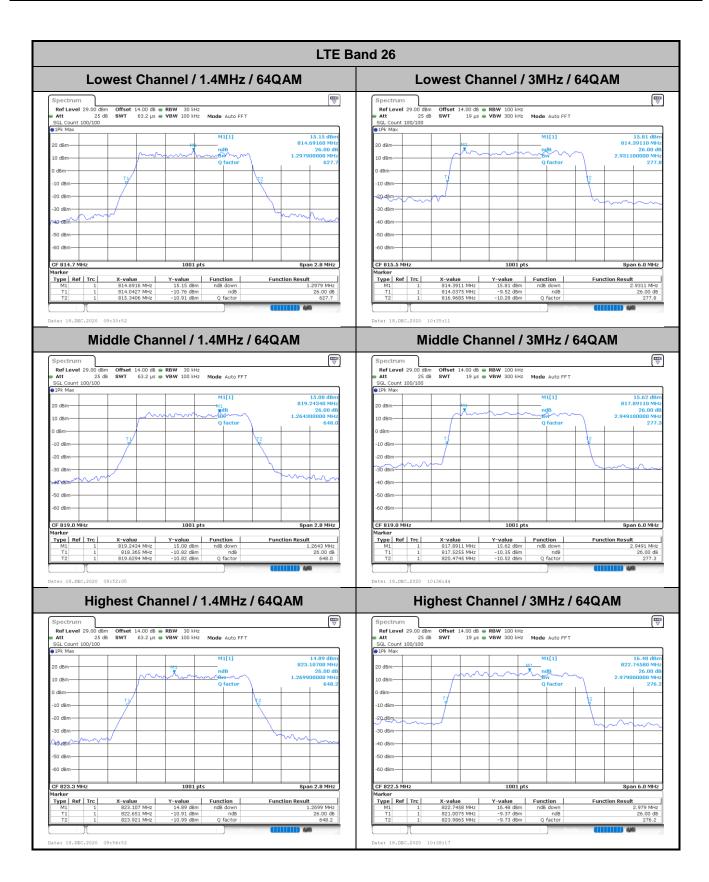
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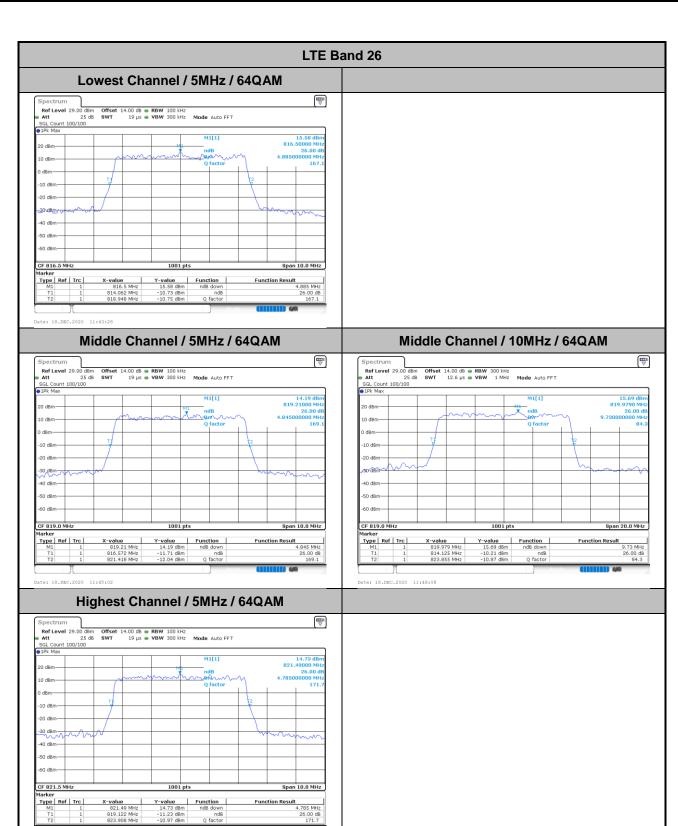
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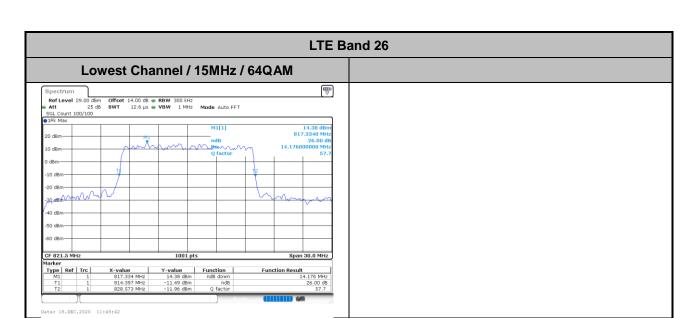
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Occupied Bandwidth

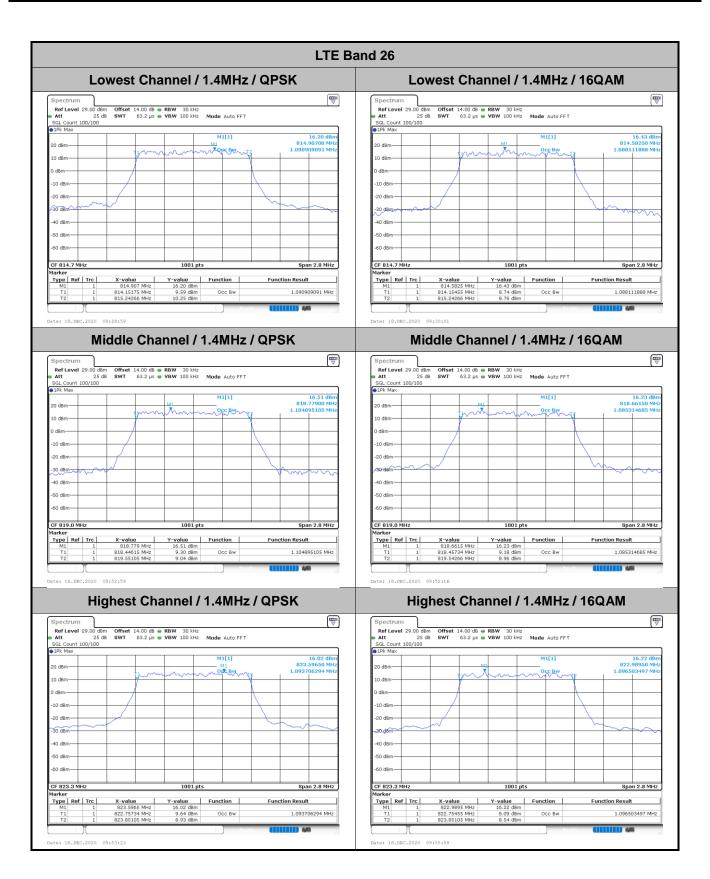
Mode		LTE Band 26 : 99%OBW(MHz)										
BW	1.4	ИНz	3M	lHz	5M	lHz	101	ЛHz	15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.71	4.49	4.49	-	-	13.46	13.46	-	-
Middle CH	1.10	1.09	2.71	2.72	4.49	4.46	9.03	8.97	-	-	-	-
Highest CH	1.09	1.10	2.70	2.71	4.50	4.50	-	-	-	-	-	-
Mode					LTE Ba	and 26 :	99%OBV	V(MHz)				
BW	1.4	ИНz	3M	lHz	5M	Hz	101	ЛHz	15N	ИHz	201	ИHz
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.10	-	2.72	-	4.50	-	-	-	13.43	-	-	-
Middle CH	1.09	-	2.73	-	4.48	-	8.99	-	-	-	-	-
Highest CH	1.09	-	2.71	-	4.50	-	-	-	-	-	-	-

Sporton International (ShenZhen) Inc.

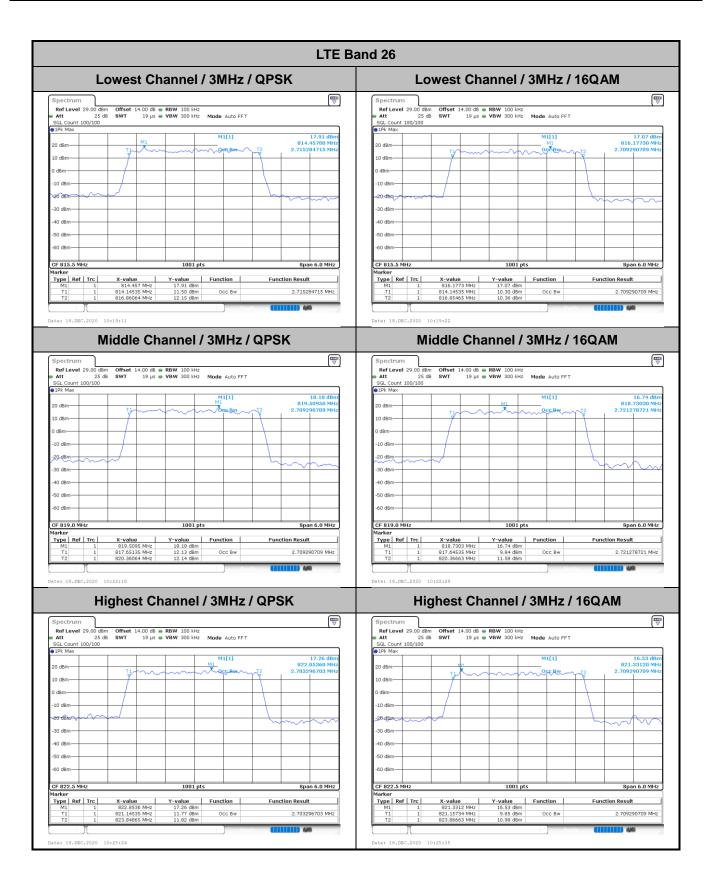
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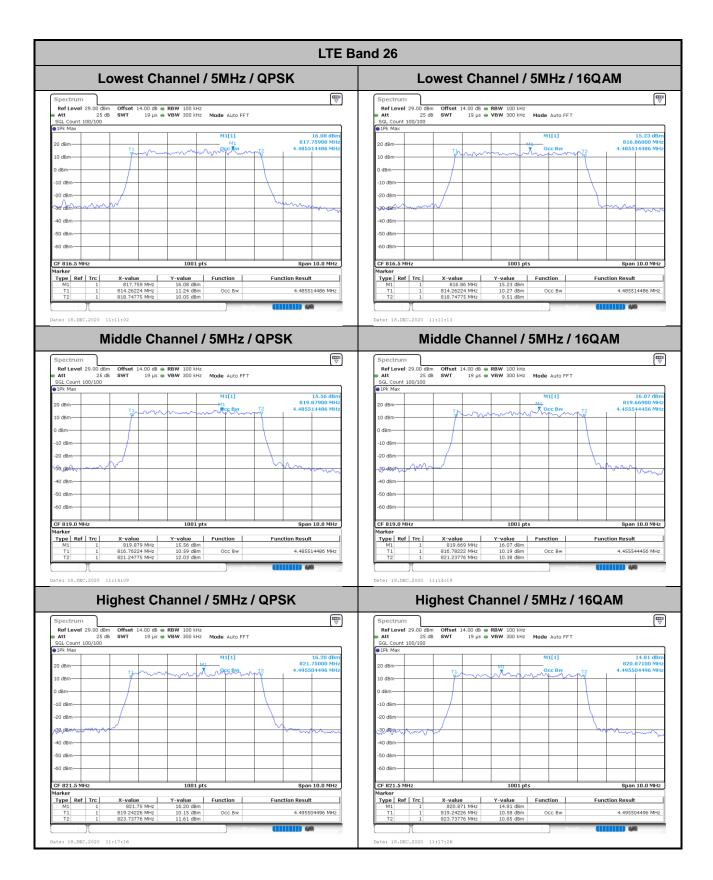
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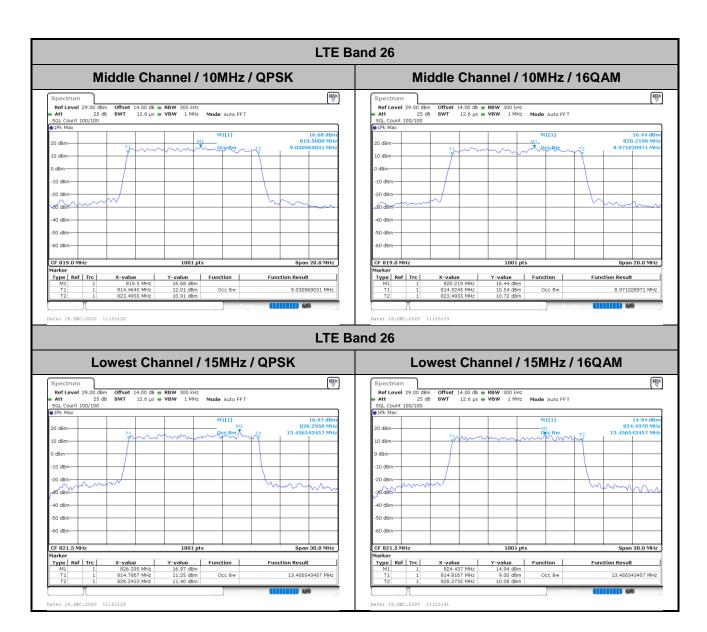
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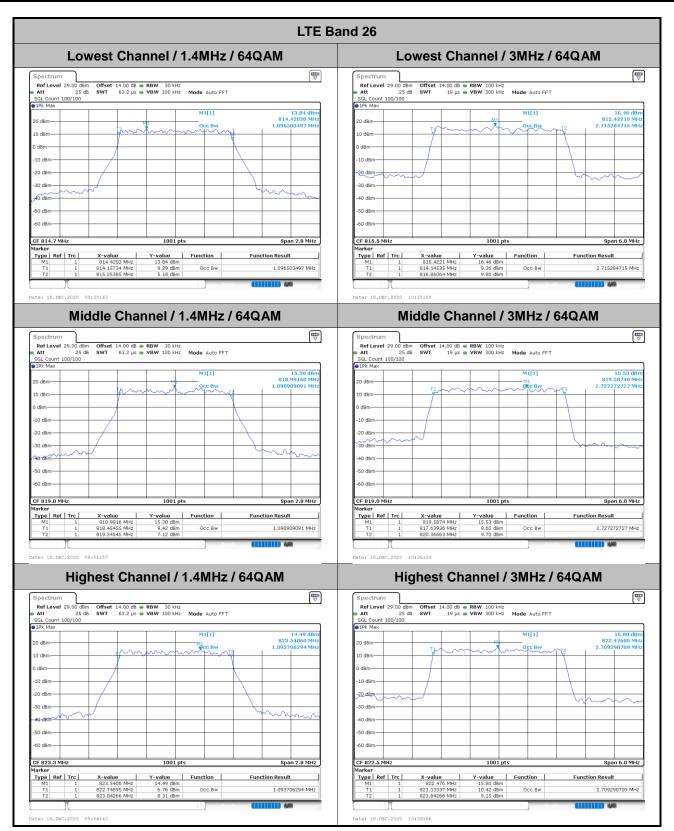
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LTE Band 26 Lowest Channel / 5MHz / 64QAM Y-value Function

14.51 dBm

9.64 dBm Occ Bw

7.75 dBm Type Ref Trc **Function Result** 4.495504496 MHz Middle Channel / 5MHz / 64QAM Middle Channel / 10MHz / 64QAM Offset 14.00 dB ● RBW 300 kHz SWT 12.6 µs ● VBW 1 MHz Mode Auto FFT
 X-value
 Y-value
 Function

 820.948 MHz
 14.25 dBm

 816.77223 MHz
 8.75 dBm
 Occ Bw

 821.24775 MHz
 8.91 dBm

 X-value
 Y-value

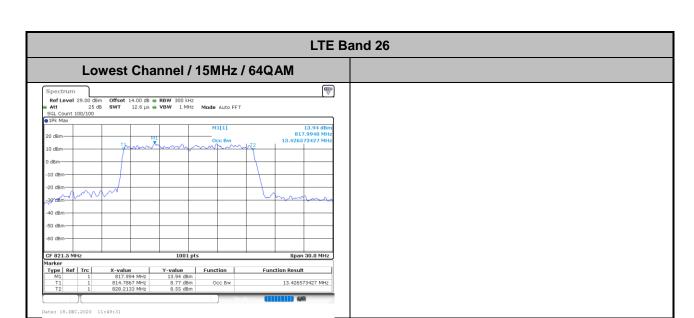
 822,277 MHz
 14,50 dB

 814,5245 MHz
 8,28 dB

 823,5155 MHz
 9,48 dB
 Type | Ref | Trc | Type | Ref | Trc | Function Function Result **Function Result** 4.475524476 MHz Occ Bw 8.991008991 MHz Highest Channel / 5MHz / 64QAM M1[1] Type Ref Trc Function Result 9.31 dBm Occ Bw 9.07 dBm 4.495504496 MHz

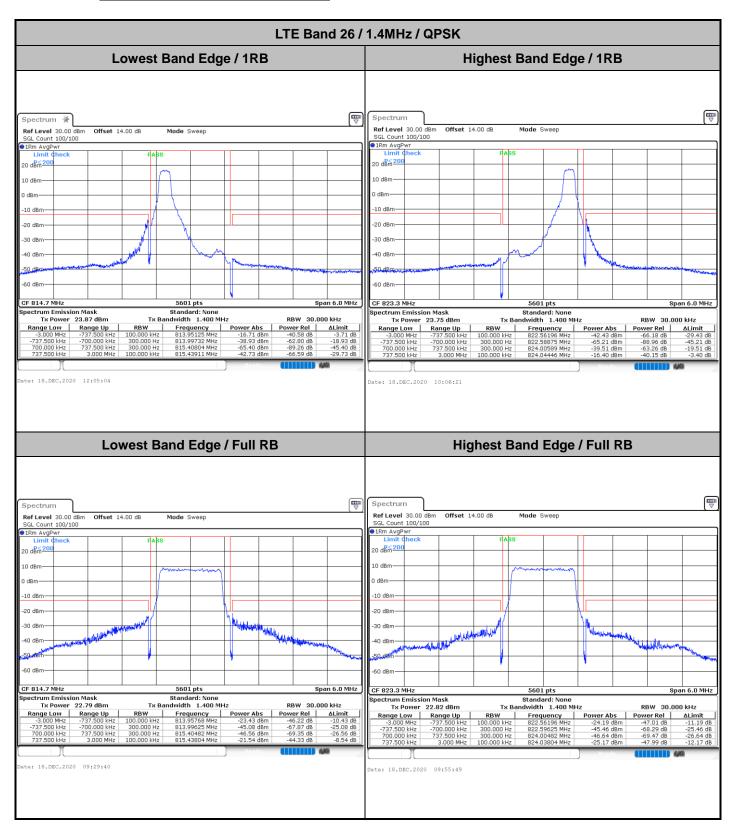
Sporton International (ShenZhen) Inc.

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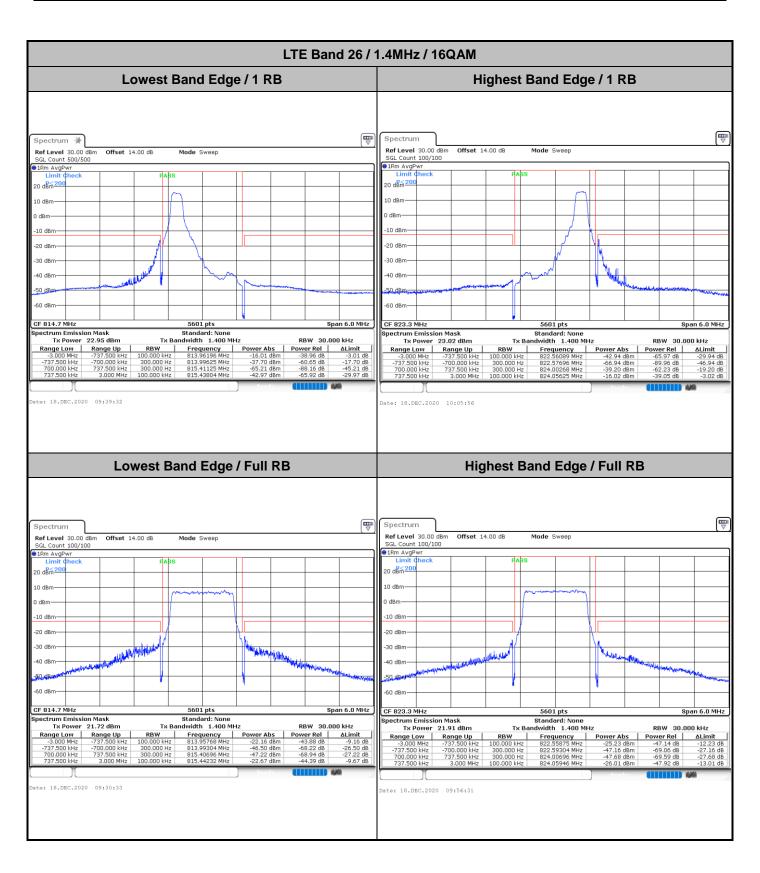
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Conducted Band Edge

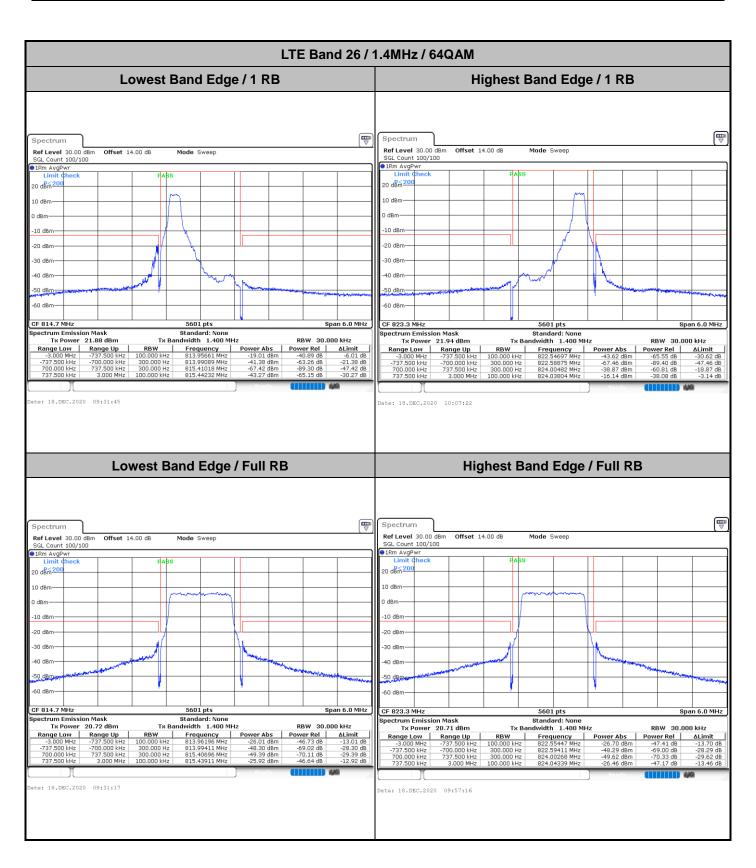


Sporton International (ShenZhen) Inc.

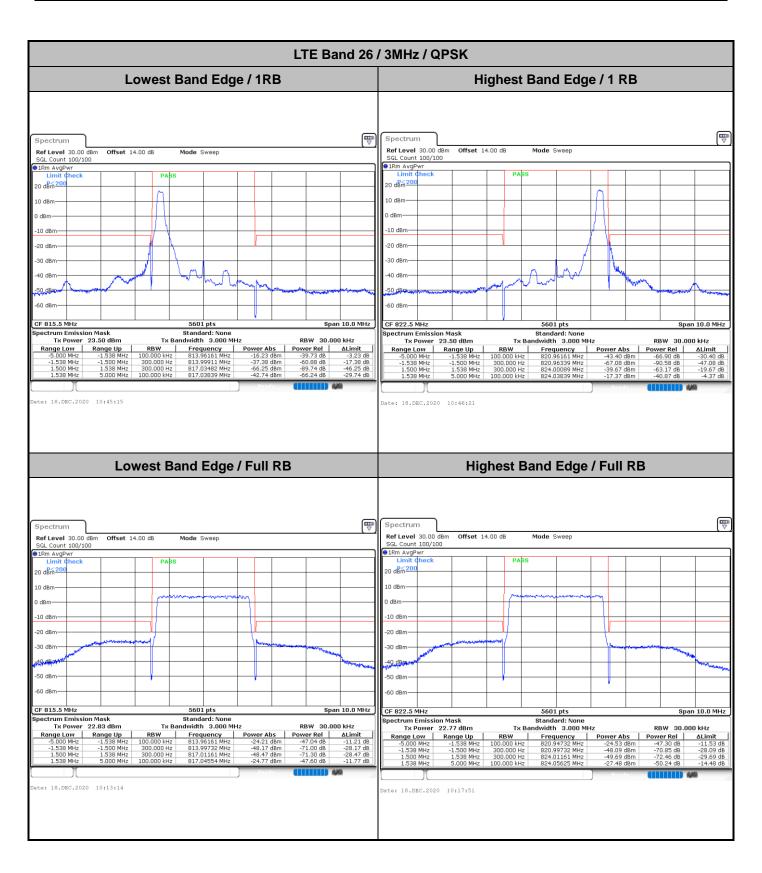
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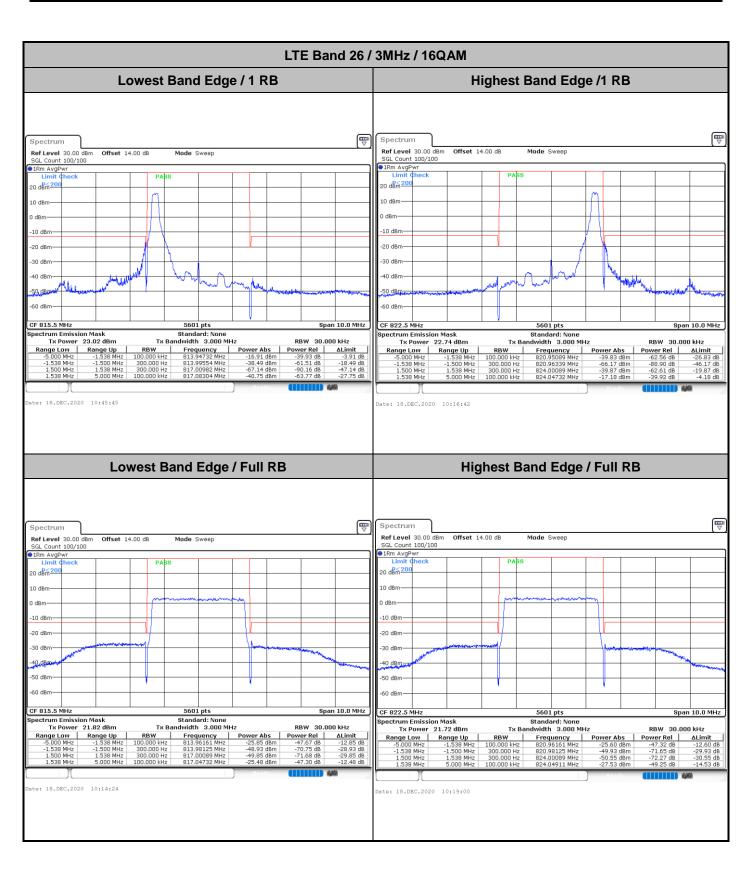
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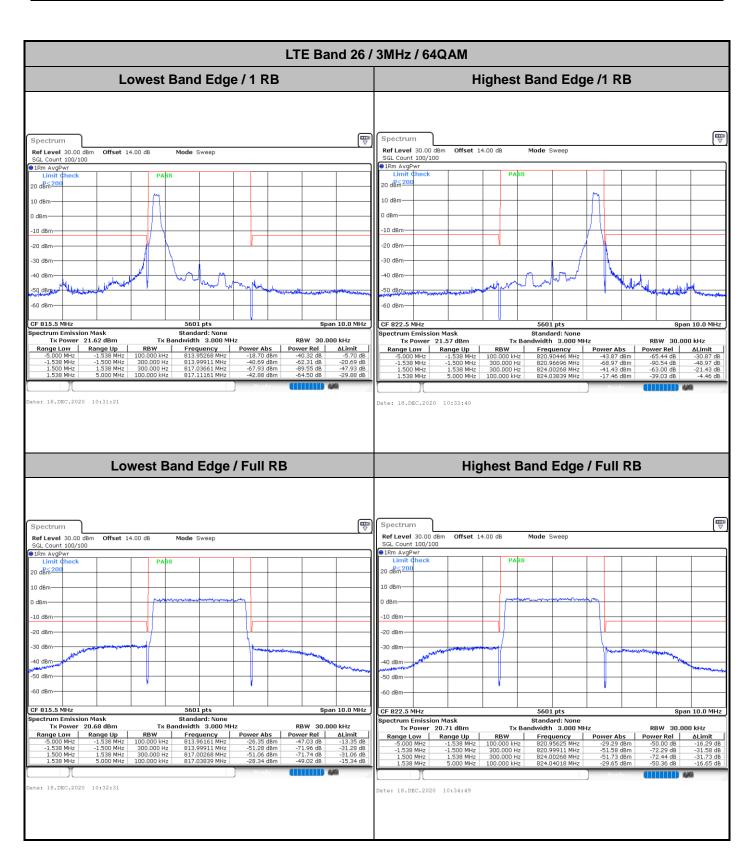
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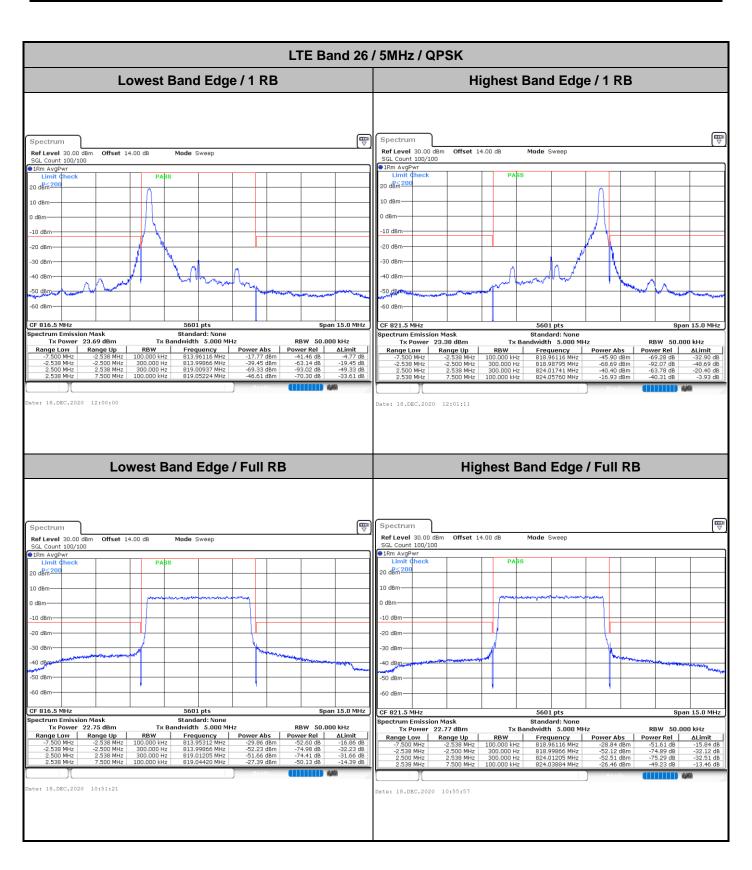
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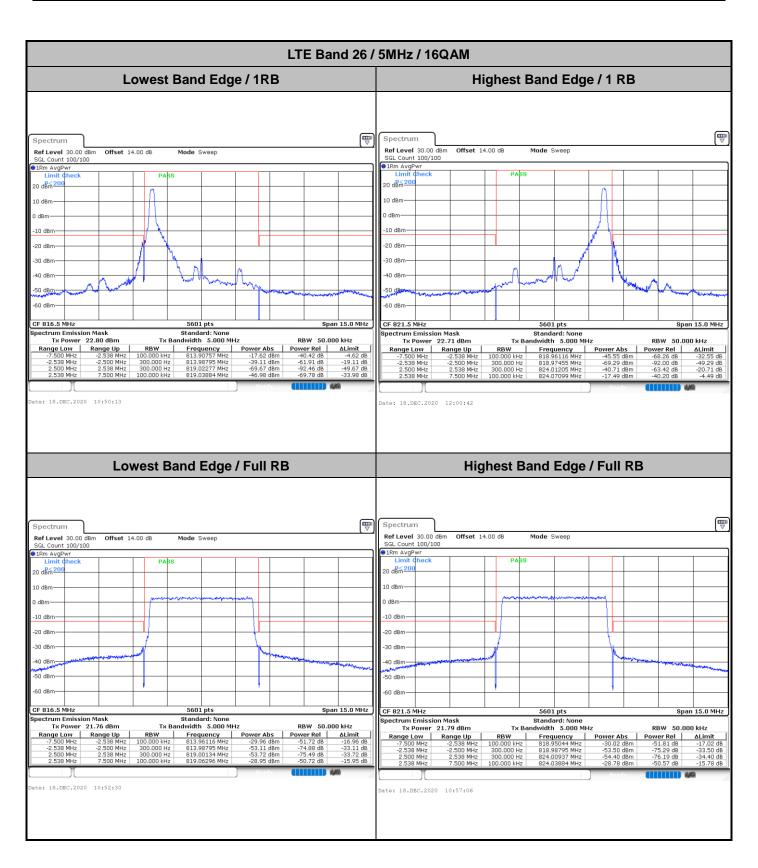
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